

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Spring 2018 Levee Inspection Results**

**Reclamation District No. 0341 Sherman Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2018 Levee Inspection Results**

**Reclamation District No. 0341 Sherman Island**

Waterway			Bank	Unit Miles
Unit No. 01 Threemile Slough			Right	3.36
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/22/2018 - 3/22/2018			
DWR Inspector	Keith Millard			
Accompanied By				

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD0341_01_f_2014_13				
Comment Code					
Inspector Comment					
District has the O+M Manual on hand.					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD0341_01_f_2014_14				
Comment Code					
Inspector Comment					
District has emergency supplies stored.					

No Photos

LM Start		Rating **	A	Issue No.	15
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD0341_01_f_2014_15				
Comment Code					
Inspector Comment					
District is prepared for a flood fight.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	0.00	Rating **	M	Issue No.	25
LM End	0.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.085507 °	38.085507 °
				-121.686528 °	-121.686528 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52252 DS_ID:24215 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/05/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 30-inch steel drainage pipe through the levee 11.1 feet below the crown. Corrugated metal cutoff wall around pipe at the center of the levee. Siphon breaker is located on both waterside (WS) and landside (LS). Pump is located on the LS approximately 300 feet from LS toe. Pipe is exposed on both levee slopes. Rock revetment present along WS slope. Marine Station number 1 located on WS with an attached small solar panel on top. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 0.0). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 175+00]. FS Date: 5/5/2009					

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>25 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52252\_37640.jpg



Marine station posts in river identified as Station 1 near crossing.

Photo 2 of 3 : UCIP\_SP\_2018\_52252\_37644.jpg



View of pipe and siphon breaker located on WS--dense vegetation on slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	0.00	Rating **	M	Issue No.	25 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.085507 °	38.085507 °	
				-121.686528 °	-121.686528 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52252 DS_ID:24215 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/05/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 30-inch steel drainage pipe through the levee 11.1 feet below the crown. Corrugated metal cutoff wall around pipe at the center of the levee. Siphon breaker is located on both waterside (WS) and landside (LS). Pump is located on the LS approximately 300 feet from LS toe. Pipe is exposed on both levee slopes. Rock revetment present along WS slope. Marine Station number 1 located on WS with an attached small solar panel on top. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 0.0). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 175+00]. FS Date: 5/5/2009						

Photo 3 of 3 : UCIP\_SP\_2018\_52252\_37642.jpg



Overview of LS slope above ground once it exits levee. Pump is located approximately 300 feet from levee toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	0.48	Rating **	M	Issue No.	26
LM End	0.48	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.092464 °	38.092464 °
				-121.686962 °	-121.686962 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52253  
DS\_ID:24110  
EP\_NO: 6297  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the posts located on WS are markers indicating line. Line comes from Twitchel Island to Sherman Island. (DWR UCIP - O. Magana)  
05/05/2009 Markers Missing. Underground alert service (USA) markings visible on road surface. No markers found to confirm crossing is still in use--need to contact owner to determine status of crossing. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 3-inch electrical transmission cable of unknown material through the levee, 3.5 feet below the crown. Location marker located on the waterside (WS) shoulder--no marker found in 2013. Pole located on the landside (LS). Rock revetment along the on WS slope. (Permit No. 6297, 1969 - Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 148+00]  
FS Date: 5/5/2009

LM Start	<b>0.48</b>	Rating **	M	Issue No.	<b>26 (cont)</b>
LM End	<b>0.48</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52253\_37647.jpg



Underground Service Alert (USA) markings on road surface indicating line is still present.

Photo 2 of 3 : UCIP\_SP\_2018\_52253\_37646.jpg



Underground Service Alert (USA) markings on road shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	0.48	Rating **	M	Issue No.	26 (cont)	
LM End	0.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.092464 °	38.092464 °	
				-121.686962 °	-121.686962 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52253						
DS_ID:24110						
EP_NO: 6297						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the posts located on WS are markers indicating line. Line comes from Twitchel Island to Sherman Island. (DWR UCIP - O. Magana)						
05/05/2009 Markers Missing. Underground alert service (USA) markings visible on road surface. No markers found to confirm crossing is still in use--need to contact owner to determine status of crossing. (DWR UCIP - O. Magana)						
FIELD_STRUCT_DESC: 3-inch electrical transmission cable of unknown material through the levee, 3.5 feet below the crown. Location marker located on the waterside (WS) shoulder--no marker found in 2013. Pole located on the landside (LS). Rock revetment along the on WS slope. (Permit No. 6297, 1969 - Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 148+00]						
FS Date: 5/5/2009						

Photo 3 of 3 : UCIP\_SP\_2018\_52253\_37645.jpg



Power pole located on LS aligns with crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	0.50	Rating **	M	Issue No.	27
LM End	0.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.092754 °	38.092754 °
				-121.686878 °	-121.686878 °
DWR ID					

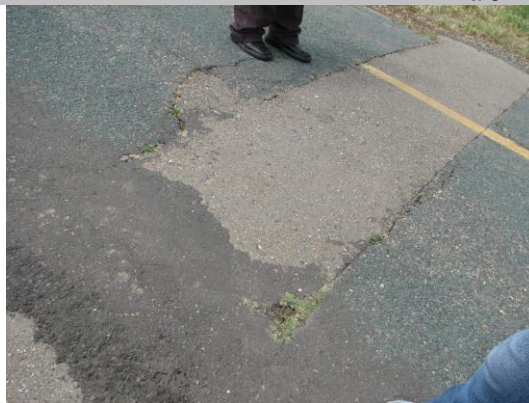
**Comment Code**

**Inspector Comment**

FS\_ID:52254  
DS\_ID:24111  
EP\_NO: 1477  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the LS pipe section was replaced in about 2005 under the Three Mile Slough Project. No work was completed on crown or WS. (DWR UCIP - O. Magana)  
05/05/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 10-inch steel irrigation siphon pipe through the levee, 1.8 feet below the crown. 10-inch pipe is encased in 12-inch corrugated metal conduit under crown. Pump is located on landside (LS). Air vent and metal distribution box with gate are located on the LS. Rock revetment placed along the waterside (WS) slope. A 30-foot section of pipe under the crown was replaced and encased in corrugated metal pipe (CMP) under unknown permit. (10-inch pipe authorized under Permit No. 1477, 1950 - L. J. Anderson) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 0.50). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 149+00]  
FS Date: 5/5/2009

LM Start	<b>0.50</b>	Rating **	M	Issue No.	<b>27 (cont)</b>
LM End	<b>0.50</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52254\_37654.jpg



Cut along pipe alignment--unknown repair or maintenance date.

Photo 2 of 3 : UCIP\_SP\_2018\_52254\_37658.jpg



Pipe visible from WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	0.50	Rating **	M	Issue No.	27 (cont)	
LM End	0.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.092754 °	38.092754 °	
				-121.686878 °	-121.686878 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52254 DS_ID:24111 EP_NO: 1477 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the LS pipe section was replaced in about 2005 under the Three Mile Slough Project. No work was completed on crown or WS. (DWR UCIP - O. Magana) 05/05/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 10-inch steel irrigation siphon pipe through the levee, 1.8 feet below the crown. 10-inch pipe is encased in 12-inch corrugated metal conduit under crown. Pump is located on landside (LS). Air vent and metal distribution box with gate are located on the LS. Rock revetment placed along the waterside (WS) slope. A 30-foot section of pipe under the crown was replaced and encased in corrugated metal pipe (CMP) under unknown permit. (10-inch pipe authorized under Permit No. 1477, 1950 - L. J. Anderson) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 0.50). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 149+00] FS Date: 5/5/2009						

Photo 3 of 3 : UCIP\_SP\_2018\_52254\_37655.jpg



View of pipe on WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	0.76	Rating **	M	Issue No.	20
LM End	0.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.096477 °	38.096477 °
				-121.686908 °	-121.686908 °
DWR ID	DWR_RD0341_01_f_2017_20				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping should be reduced and maintained.					

Photo 1 of 1 : SP\_2018\_RD0341\_167\_20\_20180305\_00001.jpg



Large willow tree and pampas grass partially blocks visibility and access to landside slope and toe. This landscaping should be trimmed/thinned.

LM Start	1.07	Rating **	M	Issue No.	28
LM End	1.07	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.100972 °	38.100972 °
				-121.686813 °	-121.686813 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52255 DS_ID:24113 EP_NO: 11095 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, this pipe is an irrigation siphon pipe and not a drainage pipe. Primer stem and primer is located on the LS near the berry shrubs. (DWR UCIP - O. Magana) 05/05/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 18-inch steel irrigation siphon pipe sleeved through 24-inch pipe through the levee, 4 feet below the crown. Primer stem and primer located on the landside (LS). Pipe exposed on the waterside (WS) slope. (18-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11095, 1975 - A. M. Cabral). [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 118+00] FS Date: 5/5/2009					

Photo 1 of 3 : UCIP\_SP\_2018\_52255\_37664.jpg



View of pipe located on WS.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	1.07	Rating **	M	Issue No.	28 (cont)	
LM End	1.07	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.100972 °	38.100972 °	
				-121.686813 °	-121.686813 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52255 DS_ID:24113 EP_NO: 11095 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, this pipe is an irrigation siphon pipe and not a drainage pipe. Primer stem and primer is located on the LS near the berry shrubs. (DWR UCIP - O. Magana) 05/05/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 18-inch steel irrigation siphon pipe sleeved through 24-inch pipe through the levee, 4 feet below the crown. Primer stem and primer located on the landside (LS). Pipe exposed on the waterside (WS) slope. (18-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11095, 1975 - A. M. Cabral). [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 118+00] FS Date: 5/5/2009						

LM Start	<b>1.07</b>	Rating **	M	Issue No.	<b>28 (cont)</b>
LM End	<b>1.07</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_52255\_37663.jpg



View of LS--visible standup pipe with primer stem is located on the LS slope.

Photo 3 of 3 : UCIP\_SP\_2018\_52255\_37662.jpg



Gate located past the fence area near LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	1.44	Rating **	M	Issue No.	29
LM End	1.44	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.106183 °	38.106183 °
				-121.685541 °	-121.685541 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52256  
DS\_ID:24115  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 05/05/2009 Need to contact owner to determine if crossing is still active and to determine last inspection date. Will need copy of letter showing crossings passed inspection. NEED photo of emergency contact information from marker. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 10-inch steel gas line through the levee at an unknown depth below the levee crown. Valve in concrete box on the landside (LS). (no permit was found, field markers indicate owner is Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 1.42). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 99+00]  
FS Date: 5/5/2009

LM Start	<b>1.44</b>	Rating **	M	Issue No.	<b>29 (cont)</b>
LM End	<b>1.44</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52256\_37675.jpg



Concrete box located on LS.

Photo 2 of 3 : UCIP\_SP\_2018\_52256\_37672.jpg



Inside view of vault located on the LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	1.44	Rating **	M	Issue No.	29 (cont)
LM End	1.44	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.106183 °	38.106183 °
				-121.685541 °	-121.685541 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:52256  
DS\_ID:24115  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 05/05/2009 Need to contact owner to determine if crossing is still active and to determine last inspection date. Will need copy of letter showing crossings passed inspection. NEED photo of emergency contact information from marker. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 10-inch steel gas line through the levee at an unknown depth below the levee crown. Valve in concrete box on the landside (LS). (no permit was found, field markers indicate owner is Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 1.42). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 99+00]  
FS Date: 5/5/2009

Photo 3 of 3 : UCIP\_SP\_2018\_52256\_37674.jpg



View of pipe inside concrete box located on LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	1.45	Rating **	M	Issue No.	30	
LM End	1.45	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.106323 °	38.106323 °	
				-121.685493 °	-121.685493 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52257 DS_ID:24217 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/05/2009 Unknown detail of the size of crossing. Need to contact owner to determine if crossing is still active and to determine last inspection date. Will need copy of letter showing crossings passed inspection. NEED photo of emergency contact information from marker. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: Gas line of unknown material through the levee at an unknown depth below the levee crown. (no permit was found, field markers indicate owner is Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 1.44). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 98+00] FS Date: 5/5/2009						

Photo 1 of 3 : UCIP\_SP\_2018\_52257\_37680.jpg



Concrete box located on LS.

LM Start	<b>1.45</b>	Rating **	M	Issue No.	<b>30 (cont)</b>
LM End	<b>1.45</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_52257\_37677.jpg



Inside view of vault located on the LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	1.45	Rating **	M	Issue No.	30 (cont)	
LM End	1.45	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.106323 °	38.106323 °	
				-121.685493 °	-121.685493 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52257 DS_ID:24217 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/05/2009 Unknown detail of the size of crossing. Need to contact owner to determine if crossing is still active and to determine last inspection date. Will need copy of letter showing crossings passed inspection. NEED photo of emergency contact information from marker. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: Gas line of unknown material through the levee at an unknown depth below the levee crown. (no permit was found, field markers indicate owner is Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 1.44). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 98+00] FS Date: 5/5/2009						

Photo 3 of 3 : UCIP\_SP\_2018\_52257\_37679.jpg



View of pipe inside concrete box located on LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	1.96	Rating **	M	Issue No.	31
LM End	1.96	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.113641 °	38.113641 °
				-121.684112 °	-121.684112 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52258 DS_ID:24116 EP_NO: 11103 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/05/2009 Unable to determine if crossing is the same as permitted under permit no. 11103. Need to contact owner and determine status of crossing under permit no. 11103. Believe steel conduit is exposed on landward side. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 1.5-inch iron water pipe and 3.5-inch electrical steel conduit through the levee, both 3 feet below the crown. Pressure system and service pole located on the landside (LS) slope. Fishing resort located on the waterside (WS). (1.5-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11103, 1975 - Western Water Ways, Inc.; 3.5-inch not listed in Permit No. 11103) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 71+00] FS Date: 5/5/2009					

LM Start	<b>1.96</b>	Rating **	M	Issue No.	<b>31 (cont)</b>
LM End	<b>1.96</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52258\_37706.jpg



View of WS.

Photo 2 of 3 : UCIP\_SP\_2018\_52258\_37704.jpg



Power connection on WS no other appurtenances found.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	1.96	Rating **	M	Issue No.	31 (cont)
LM End	1.96	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.113641 °	38.113641 °
				-121.684112 °	-121.684112 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52258 DS_ID:24116 EP_NO: 11103 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/05/2009 Unable to determine if crossing is the same as permitted under permit no. 11103. Need to contact owner and determine status of crossing under permit no. 11103. Believe steel conduit is exposed on landward side. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 1.5-inch iron water pipe and 3.5-inch electrical steel conduit through the levee, both 3 feet below the crown. Pressure system and service pole located on the landside (LS) slope. Fishing resort located on the waterside (WS). (1.5-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11103, 1975 - Western Water Ways, Inc.; 3.5-inch not listed in Permit No. 11103) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 71+00] FS Date: 5/5/2009					

Photo 3 of 3 : UCIP\_SP\_2018\_52258\_37703.jpg



View of LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	2.00	Rating **	M	Issue No.	32
LM End	2.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.114092 °	38.114092 °
				-121.684524 °	-121.684524 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52259 DS_ID:24117 EP_NO: 5427 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the features on the LS include sump pump inside well and drain leach field. The septic line pumps from WS to LS and deposit water in hole. (DWR UCIP - O. Magana) 05/05/2009 Unable to find pipe or sump pump. Indicators found on landward side include potential septic tank and observation well. Need to contact owner of crossing to determine status of crossing. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 1 of 2: 4-inch galvanized iron sewage pipe sleeved through 6-inch steel pipe through the levee, 3.7 feet below the crown. Sump pump located on the waterside (WS) slope. Septic tank and observation well are located on the landside (LS). (4-inch pipe authorized under Permit No. 5427, 1966 - Patrick's Resort) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 69+00] FS Date: 5/5/2009					

LM Start	<b>2.00</b>	Rating **	M	Issue No.	<b>32 (cont)</b>
LM End	<b>2.00</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52259\_37712.jpg



View of potential observation well on LS.

Photo 2 of 3 : UCIP\_SP\_2018\_52259\_37711.jpg



Stand pipe (potential observation well) and concrete pad located on LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0341 Sherman Island

View of WS.Page 17 of 32

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	2.00	Rating **	M	Issue No.	33	
LM End	2.00	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.114092 °	38.114092 °	
				-121.684524 °	-121.684524 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52260 DS_ID:24237 EP_NO: 5427 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 05/05/2009 Signs of electrical connection boxes. Unable to determine if these boxes are associated to crossing. Need to contact owner to determine status of crossing. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 2 of 2: Five 1 to 1.5-inch pipes through the levee, 3.7 feet below the crown. Pump on waterward slope. Septic tank and observation well on the landward side. (conduit containing 1- to 1.5-inch pipes (per inspector's notes) authorized under Permit No. 5427, 1966 - Patrick's Resort) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 68+00] FS Date: 5/5/2009						

LM Start	<b>2.00</b>	Rating **	M	Issue No.	<b>33 (cont)</b>
LM End	<b>2.00</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_52260\_37717.jpg



Electrical conduit and box located on left corner of picture.

Photo 2 of 2 : UCIP\_SP\_2018\_52260\_37716.jpg



Electrical connection visible next to concrete pad--right corner.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	2.05	Rating **	M	Issue No.	34
LM End	2.05	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.114043 °	38.114043 °
				-121.685421 °	-121.685421 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52261  
DS\_ID:24119  
EP\_NO: 960  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 05/05/2009 Need to contact owner to determine last inspection and status of crossing. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 1 of 2: 10-inch steel gas line through the levee, 2 feet below the levee crown. Cutoff wall around pipes located at the center of the levee. Valve pit located on the landside (LS) shoulder, with 2-inch drain pipe along LS slope. Location marker located on the waterside (WS) slope. Contact information for PG&E is 800-811-4111. (two 10-inch line authorized under Permit No. 960, 1944 - Pacific Gas and Electric Company [PG&E]; 10-inch pipes removed through levee-abandoned outside levee and replaced with unknown size pipes, and video inspection on gas line (G/L) 169, G/L 302, G/L 131 (p. 24 of 30), and G/L 141 authorized under Permit No. 15319, 1990 - PG&E; line referenced by PG&E as G/L 131) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962 (HLM 2.04). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 67+00]  
FS Date: 5/5/2009

LM Start	<b>2.05</b>	Rating **	M	Issue No.	<b>34 (cont)</b>
LM End	<b>2.05</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_52261\_37719.jpg



Pipeline marker located on WS shoulder.

Photo 2 of 2 : UCIP\_SP\_2018\_52261\_37718.jpg



LS markers visible near levee toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	2.05	Rating **	M	Issue No.	35
LM End	2.05	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.114043 °	38.114043 °
				-121.685421 °	-121.685421 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52262  
DS\_ID:24242  
EP\_NO: 960  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 05/05/2009 Need to contact owner to determine last inspection and status of crossing. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 2 of 2: 10-inch steel gas line through the levee, 2 feet below the levee crown. Cutoff wall around pipes located at the center of the levee. Valve pit located on the landside (LS) shoulder, with 2-inch drain pipe along LS slope. Location marker located on the waterside (WS) slope. Contact information for PG&E is 800-811-4111. (two 10-inch line authorized under Permit No. 960, 1944 - Pacific Gas and Electric Company [PG&E]; 10-inch pipes removed through levee-abandoned outside levee and replaced with unknown size pipes, and video inspection on gas line (G/L) 169, G/L 302, G/L 131 (p. 24 of 30), and G/L 141 authorized under Permit No. 15319, 1990 - PG&E; line referenced by PG&E as G/L 131) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962 (HLM 2.04). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 67+00]  
FS Date: 5/5/2009

LM Start	<b>2.05</b>	Rating **	M	Issue No.	<b>35 (cont)</b>
LM End	<b>2.05</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_52262\_37724.jpg



Warning marker visible on WS shoulder.

Photo 2 of 2 : UCIP\_SP\_2018\_52262\_37723.jpg



Markers also visible on LS near levee toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	2.11	Rating **	M	Issue No.	36	
LM End	2.11	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.113753 °	38.113753 °	
				-121.686298 °	-121.686298 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52263 DS_ID:24756 EP_NO: 17251 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 03/04/2014 Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 24-inch steel natural gas line through the levee, 125-feet below the levee crown (24-inch pipe authorized under Permit No. 17251 and 17251-Rev, 2002 - Lodi Gas Storage, LLC). [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 64+00] FS Date: 3/4/2014						

LM Start	<b>2.11</b>	Rating **	M	Issue No.	<b>36 (cont)</b>
LM End	<b>2.11</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_52263\_71847.jpg



View of sign located on WS.

Photo 2 of 2 : UCIP\_SP\_2018\_52263\_71846.jpg



Markers visible on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	2.19	Rating **	M	Issue No.	21
LM End	2.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.113144 °	38.113144 °
				-121.687601 °	-121.687601 °
DWR ID	DWR_RD0341_01_s_2018_21				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree on waterside slope.					

Photo 1 of 1 : SP\_2018\_RD0341\_167\_21\_20180322\_00052.jpg



Fallen tree on waterside slope should be removed.

LM Start	2.35	Rating **	M	Issue No.	37	
LM End	2.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.111444 °	38.111444 °	
				-121.689785 °	-121.689785 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52264 DS_ID:24120 EP_NO: 11102 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the LS pipe was repaired/repaired under the Three Mile Slough Project in 2005, Setback Project, Project covers Station 10+00 to 175+00. (DWR UCIP - O. Magana) 05/05/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 10-inch steel irrigation pipe sleeved through a 12-inch pipe through the levee, 4.6 feet below the levee crown. Annular gap grouted between pipes. Irrigation canal with distribution box located on the landside (LS) toe. Rock revetment is located on the waterside (WS) slope. (10-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11102, 1975 - C. and E. Silva) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962 (HLM 2.33). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 51+00] FS Date: 5/5/2009						

Photo 1 of 3 : UCIP\_SP\_2018\_52264\_37734.jpg



View of pipe on WS.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	2.35	Rating **	M	Issue No.	37 (cont)
LM End	2.35	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.111444 °	38.111444 °
				-121.689785 °	-121.689785 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52264  
DS\_ID:24120  
EP\_NO: 11102  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the LS pipe was repaired/repared under the Three Mile Slough Project in 2005, Setback Project, Project covers Station 10+00 to 175+00. (DWR UCIP - O. Magana)  
05/05/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 10-inch steel irrigation pipe sleeved through a 12-inch pipe through the levee, 4.6 feet below the levee crown. Annular gap grouted between pipes. Irrigation canal with distribution box located on the landside (LS) toe. Rock revetment is located on the waterside (WS) slope. (10-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11102, 1975 - C. and E. Silva) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962 (HLM 2.33). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 51+00]  
FS Date: 5/5/2009

LM Start	<b>2.35</b>	Rating **	M	Issue No.	<b>37 (cont)</b>
LM End	<b>2.35</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_52264\_37733.jpg



Riser and gate visible on LS--dense vegetation limits inspection.

Photo 3 of 3 : UCIP\_SP\_2018\_52264\_37732.jpg



Siphon breaker located on LS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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## Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

Photo 1 of 3 : UCIP\_SP\_2018\_52265\_37750.jpg



View of pipe and rip rap located on WS.

FS\_ID:52265  
DS\_ID:24121  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the LS pipe was repaired/repared under the Three Mile Slough Project in 2005, Setback Project, Project covers Station 10+00 to 175+00. (DWR UCIP - O. Magana)  
05/05/2009 Pipe size does not match -- found 10 inch instead of 8 inch. Pipe (1 of 2) was supposed to be removed and replaced with 12-inch steel irrigation pipes under Permit No. 5629 (1966). Historical Levee Logs from 1992 do not reflect that the replacement was completed, verify diameter of pipes and status with applicant. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 1 of 2: 10-inch (not 8-inch as originally noted in records) steel irrigation pipe through the levee, 1.4 feet below the crown. Siphon breaker is located on the landside (LS). Irrigation ditch with distribution box is located on LS toe. Pipe exposed on both slopes. Rock revetment present along on waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962 (HLM 2.93), two 8-inch pipes. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 20+00]  
FS Date: 5/5/2009

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	2.95	Rating **	M	Issue No.	38 (cont)
LM End	2.95	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.104206 °	38.104206 °
				-121.695367 °	-121.695367 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52265  
DS\_ID:24121  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the LS pipe was repaired/replaced under the Three Mile Slough Project in 2005, Setback Project, Project covers Station 10+00 to 175+00. (DWR UCIP - O. Magana)  
05/05/2009 Pipe size does not match -- found 10 inch instead of 8 inch. Pipe (1 of 2) was supposed to be removed and replaced with 12-inch steel irrigation pipes under Permit No. 5629 (1966). Historical Levee Logs from 1992 do not reflect that the replacement was completed, verify diameter of pipes and status with applicant. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 1 of 2: 10-inch (not 8-inch as originally noted in records) steel irrigation pipe through the levee, 1.4 feet below the crown. Siphon breaker is located on the landside (LS). Irrigation ditch with distribution box is located on LS toe. Pipe exposed on both slopes. Rock revetment present along on waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962 (HLM 2.93), two 8-inch pipes. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 20+00]  
FS Date: 5/5/2009

Photo 2 of 3 : UCIP\_SP\_2018\_52265\_37747.jpg



Small stand pipe (primer) located on LS--unknown purpose of stand pipe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	2.95	Rating **	M	Issue No.	38 (cont)
LM End	2.95	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.104206 °	38.104206 °
				-121.695367 °	-121.695367 °
DWR ID					

Comment Code
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Inspector Comment
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FS\_ID:52265  
DS\_ID:24121  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the LS pipe was repaired/repared under the Three Mile Slough Project in 2005, Setback Project, Project covers Station 10+00 to 175+00. (DWR UCIP - O. Magana)  
05/05/2009 Pipe size does not match -- found 10 inch instead of 8 inch. Pipe (1 of 2) was supposed to be removed and replaced with 12-inch steel irrigation pipes under Permit No. 5629 (1966). Historical Levee Logs from 1992 do not reflect that the replacement was completed, verify diameter of pipes and status with applicant. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 1 of 2: 10-inch (not 8-inch as originally noted in records) steel irrigation pipe through the levee, 1.4 feet below the crown. Siphon breaker is located on the landside (LS). Irrigation ditch with distribution box is located on LS toe. Pipe exposed on both slopes. Rock revetment present along on waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962 (HLM 2.93), two 8-inch pipes. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 20+00]  
FS Date: 5/5/2009

Photo 3 of 3 : UCIP\_SP\_2018\_52265\_37749.jpg



New distribution box and valve located on LS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	2.95	Rating **	M	Issue No.	39
LM End	2.95	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.104206 °	38.104206 °
				-121.695367 °	-121.695367 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52266  
DS\_ID:24238  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the LS pipe was repaired/repaired under the Three Mile Slough Project in 2005, Setback Project, Project covers Station 10+00 to 175+00. (DWR UCIP - O. Magana)  
05/05/2009 Pipe size does not match--found 10 inch instead of 8 inch. Pipe (2 of 2) was supposed to be removed and replaced with 12-inch steel irrigation pipes under Permit No. 5629 (1966). Historical Levee Logs from 1992 do not reflect that the replacement was completed, verify diameter of pipes and status with applicant. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 2 of 2: 10-inch (not 8-inch as originally mentioned in desk study) steel irrigation pipe through the levee, 1.6 feet below the crown. Siphon breaker located on the landside (LS). Irrigation ditch with distribution box located on the LS toe. Pipe exposed on both slopes. Rock revetment placed on waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962 (HLM 2.93), two 8-inch pipes. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 20+00]  
FS Date: 5/5/2009

Photo 1 of 3 : UCIP\_SP\_2018\_52266\_37758.jpg



View of pipe and rip rap located on WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	2.95	Rating **	M	Issue No.	39 (cont)
LM End	2.95	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.104206 °	38.104206 °
				-121.695367 °	-121.695367 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52266  
DS\_ID:24238  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the LS pipe was repaired/repaired under the Three Mile Slough Project in 2005, Setback Project, Project covers Station 10+00 to 175+00. (DWR UCIP - O. Magana)  
05/05/2009 Pipe size does not match--found 10 inch instead of 8 inch. Pipe (2 of 2) was supposed to be removed and replaced with 12-inch steel irrigation pipes under Permit No. 5629 (1966). Historical Levee Logs from 1992 do not reflect that the replacement was completed, verify diameter of pipes and status with applicant. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 2 of 2: 10-inch (not 8-inch as originally mentioned in desk study) steel irrigation pipe through the levee, 1.6 feet below the crown. Siphon breaker located on the landside (LS). Irrigation ditch with distribution box located on the LS toe. Pipe exposed on both slopes. Rock revetment placed on waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962 (HLM 2.93), two 8-inch pipes. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 20+00]  
FS Date: 5/5/2009

Photo 2 of 3 : UCIP\_SP\_2018\_52266\_37755.jpg



Small stand pipe (primer) located on LS--unknown purpose of stand pipe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	2.95	Rating **	M	Issue No.	39 (cont)
LM End	2.95	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.104206 °	38.104206 °
				-121.695367 °	-121.695367 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52266  
DS\_ID:24238  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the LS pipe was repaired/repared under the Three Mile Slough Project in 2005, Setback Project, Project covers Station 10+00 to 175+00. (DWR UCIP - O. Magana)  
05/05/2009 Pipe size does not match--found 10 inch instead of 8 inch. Pipe (2 of 2) was supposed to be removed and replaced with 12-inch steel irrigation pipes under Permit No. 5629 (1966). Historical Levee Logs from 1992 do not reflect that the replacement was completed, verify diameter of pipes and status with applicant. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 2 of 2: 10-inch (not 8-inch as originally mentioned in desk study) steel irrigation pipe through the levee, 1.6 feet below the crown. Siphon breaker located on the landside (LS). Irrigation ditch with distribution box located on the LS toe. Pipe exposed on both slopes. Rock revetment placed on waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962 (HLM 2.93), two 8-inch pipes. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 20+00]  
FS Date: 5/5/2009

Photo 3 of 3 : UCIP\_SP\_2018\_52266\_37756.jpg



View of LS slope - stand pipe not associated with crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	3.21	Rating **	M	Issue No.	22
LM End	3.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.104677 °	38.104677 °
				-121.700030 °	-121.700030 °
DWR ID	DWR_RD0341_01_f_2017_22				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_RD0341\_167\_22\_20180305\_00002.jpg



Remove or thin wild vegetation at base of electrical transmission tower to allow visibility and access to slope and toe.

LM Start	3.24	Rating **	U	Issue No.	23
LM End	3.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.104834 °	38.104834 °
				-121.700479 °	-121.700479 °
DWR ID	DWR_RD0341_01_f_2017_23				
Comment Code					
FE : Fence					
Inspector Comment					
Unpermitted chan link and barbed wire fence enclosure prevents inspection and access to landside of levee.					

Photo 1 of 1 : SP\_2018\_RD0341\_167\_23\_20180305\_00003.jpg



Unpermitted fence.

LM Start	3.26	Rating **	U	Issue No.	24
LM End	3.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.104972 °	38.104972 °
				-121.700802 °	-121.700802 °
DWR ID	DWR_RD0341_01_f_2017_24				
Comment Code					
BU : Building					
Inspector Comment					
Unpermitted building on landside of levee.					

Photo 1 of 1 : SP\_2018\_RD0341\_167\_24\_20180305\_00004.jpg



Unpermitted landside building.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	3.33	Rating **	M	Issue No.	40	
LM End	3.33	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.105183 °	38.105183 °	
				-121.702026 °	-121.702026 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52267 DS_ID:24245 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the pipe does not go through the levee. This pipe belongs to Caltrans. Need to contact Caltrans to obtain As-builts for this crossing. (DWR UCIP - O. Magana) 05/05/2009 New crossing found in field--need to find owner and determine permit authorizing work. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: *NOT THROUGH LEVEE* 10-inch corrugated metal pipe extruding from the waterside (WS) slope. [Additional References(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 1025+00] FS Date: 5/5/2009						

LM Start	<b>3.33</b>	Rating **	M	Issue No.	<b>40 (cont)</b>
LM End	<b>3.33</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52267\_37780.jpg



View of WS.

Photo 2 of 3 : UCIP\_SP\_2018\_52267\_37783.jpg



Pipe visible on the WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	3.33	Rating **	M	Issue No.	40 (cont)
LM End	3.33	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.105183 °	38.105183 °
				-121.702026 °	-121.702026 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52267 DS_ID:24245 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, the pipe does not go through the levee. This pipe belongs to Caltrans. Need to contact Caltrans to obtain As-builts for this crossing. (DWR UCIP - O. Magana) 05/05/2009 New crossing found in field--need to find owner and determine permit authorizing work. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: *NOT THROUGH LEEVE* 10-inch corrugated metal pipe extruding from the waterside (WS) slope. [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 1025+00] FS Date: 5/5/2009					

A large, rusted metal barrel lies on its side in a stream, surrounded by rocks and debris. The barrel is heavily corroded, with a large section of the top missing, revealing a hollow interior. It is partially submerged in the water, with its lower half resting on a bed of grey and brown rocks. A thick, moss-covered branch rests across the barrel's opening. In the background, a white plastic bottle is visible among the rocks. The surrounding environment is lush with green foliage and moss, indicating a natural, possibly forested, setting.

View of corrugated metal pipe on WS.

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2018 Levee Inspection Results**

**Reclamation District No. 0341 Sherman Island**

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento River			Left	6.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/22/2018 - 3/22/2018			
DWR Inspector	Keith Millard			
Accompanied By				

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	3.36	Rating **	A/W	Issue No.	36
LM End	3.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.105315 °	38.098158 °
				-121.702537 °	-121.706320 °
DWR ID	DWR_RD0341_02_s_2017_36				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Weeds have been reduced to an acceptable level in this area.					

Photo 1 of 1 : SP\_2018\_RD0341\_168\_36\_20180322\_00085.jpg



Acceptable landside vegetation.

LM Start	3.36	Rating **	M	Issue No.	40
LM End	3.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.105315 °	38.098158 °
				-121.702537 °	-121.706320 °
DWR ID	DWR_RD0341_02_s_2017_40				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth from the waterside slope.					

No Photos

LM Start	3.45	Rating **	C	Issue No.	37
LM End	3.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.104785 °	38.104785 °
				-121.704013 °	-121.704013 °
DWR ID	DWR_RD0341_02_f_2016_37				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree removed from the landside slope.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	3.48	Rating **	M	Issue No.	44
LM End	3.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.104454 °	38.104454 °
				-121.704275 °	-121.704275 °
DWR ID	DWR_RD0341_02_s_2018_44				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree limbs from waterside shoulder.					

Photo 1 of 1 : SP\_2018\_RD0341\_168\_44\_20180322\_00086.jpg



Tree limbs on waterside shoulder should be removed.

LM Start	3.50	Rating **	M	Issue No.	45
LM End	3.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.104234 °	38.104234 °
				-121.704427 °	-121.704427 °
DWR ID	DWR_RD0341_02_s_2018_45				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree from landside levee toe.					

No Photos

LM Start	3.52	Rating **	C	Issue No.	38
LM End	3.52	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.104020 °	38.104020 °
				-121.704680 °	-121.704680 °
DWR ID	DWR_RD0341_02_f_2016_38				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the dead fallen tree on the waterside slope.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	3.52	Rating **	C	Issue No.	39
LM End	3.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.104020 °	38.104020 °
				-121.704680 °	-121.704680 °
DWR ID	DWR_RD0341_02_f_2016_39				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the fallen dead tree from the landside levee slope. This tree has not been removed as of the last inspection 11-2-2017.					

No Photos

LM Start	3.88	Rating **	M	Issue No.	46
LM End	3.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.099054 °	38.099054 °
				-121.706368 °	-121.706368 °
DWR ID	DWR_RD0341_02_s_2018_46				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree and limbs from waterside shoulder.					

Photo 1 of 1 : SP\_2018\_RD0341\_168\_46\_20180322\_00087.jpg



Tree trunk and limbs should be removed from waterside shoulder.

LM Start	3.94	Rating **	U	Issue No.	41
LM End	6.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.098158 °	38.080223 °
				-121.706320 °	-121.730312 °
DWR ID	DWR_RD0341_02_s_2017_41				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the unwanted vegetation from the waterside shoulder and slope.					

Photo 1 of 1 : SP\_2018\_RD0341\_168\_41\_20180305\_00009.jpg



Looking downstream from levee mile 3.94 at tall unwanted weeds and other vegetation on the waterside shoulder and slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	3.97	Rating **	M	Issue No.	43
LM End	6.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.097782 °	38.080143 °
				-121.706262 °	-121.728330 °
DWR ID	DWR_RD0341_02_f_2017_43				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the unwanted vegetation from the landside shoulder, slope and toe.					

Photo 1 of 1 : SP\_2018\_RD0341\_168\_43\_20180305\_00013.jpg



Remove the unwanted vegetation from the landside shoulder, slope and toe.

LM Start	4.04	Rating **	M	Issue No.	50	
LM End	4.04	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.096783 °	38.096783 °	
				-121.706173 °	-121.706173 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22203 DS_ID:24135 EP_NO: 11110 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, DWR acquired land in 1995-2000 maybe earlier. Pipe is not used. Need to determine DWR Office is responsible for RD0341. Need to contact owner determine fate of crossing. (DWR UCIP - O. Magana) 05/06/2009 Need to determine status of crossing--need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 10-inch steel irrigation pipe sleeved through 12-inch pipe through the levee, 3.8 feet below the crown. Pump on concrete well on landside (LS) slope. (10-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11110, 1975 - I. McKinnon, et al) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 4.03). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 988+00] FS Date: 5/6/2009						

Photo 1 of 3 : UCIP\_SP\_2018\_22203\_37833.jpg



Limited access to waterward side--pipe visible through brush.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	<b>4.04</b>	Rating **	M	Issue No.	<b>50 (cont)</b>
LM End	<b>4.04</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.096783 °	38.096783 °	
			-121.706173 °	-121.706173 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:22203  
DS\_ID:24135  
EP\_NO: 11110  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, DWR acquired land in 1995-2000 maybe earlier. Pipe is not used. Need to determine DWR Office is responsible for RD0341. Need to contact owner determine fate of crossing. (DWR UCIP - O. Magana) 05/06/2009 Need to determine status of crossing--need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: 10-inch steel irrigation pipe sleeved through 12-inch pipe through the levee, 3.8 feet below the crown. Pump on concrete well on landside (LS) slope. (10-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11110, 1975 - I. McKinnon, et al) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 4.03). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 988+00]  
FS Date: 5/6/2009

LM Start	<b>4.04</b>	Rating **	M	Issue No.	<b>50 (cont)</b>
LM End	<b>4.04</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_22203\_37832.jpg



View of landward shoulder and low spots on highway.

Photo 3 of 3 : UCIP\_SP\_2018\_22203\_37835.jpg



View of well and pump located on landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	4.15	Rating **	M	Issue No.	7
LM End	4.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.095148 °	38.094590 °
				-121.706367 °	-121.706393 °
DWR ID	DWR_RD0341_02_s_2016_7				
Comment Code					
Inspector Comment					
2011 - Large new erosion pocket probably hidden by vegetation in the past. 2015: No observed changes. [2015 Site ID: SAC_8-2_L]					

Photo 1 of 1 : SP\_2018\_RD0341\_168\_7\_20180305\_00004.jpg



USACE 2013 Photo #1

LM Start	4.31	Rating **	M	Issue No.	51	
LM End	4.31	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.092900 °		38.092900 °
				-121.706070 °		-121.706070 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22223 DS_ID:24122 EP_NO: 11106 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/06/2016 According to LMA Superintendent, Joel McElroy, DWR acquired land in 1995-2000 maybe earlier. Need to determine DWR Office is responsible for RD0341. Need to contact owner determine fate of crossing. (DWR UCIP - O. Magana) 05/06/2016 Need to contact owner to determine status of crossing. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 12-inch pipe through the levee, 4 feet below the crown. Pump on pile structure in stream. (12-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11106, 1975 - A. and M. E. Cabral) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 4.29). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 974+00] FS Date: 5/6/2009						

Photo 1 of 1 : UCIP\_SP\_2018\_22223\_37840.jpg



View of waterward side--pipe and pump visible.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	4.47	Rating **	U	Issue No.	3
LM End	4.62	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.090620 °	38.088572 °
				-121.706684 °	-121.707127 °
DWR ID	DWR_RD0341_02_s_2016_3				
Comment Code					
Inspector Comment					
1999 - New small slump in eroded bank. 2005 - Reach extended because of vertical bank along the roadway upstream. 2011 - More slumping since last year. 2012 - Site upgraded to critical. Very steep slope which may be effecting the highway on top of the levee. 2015: New erosion towards downstream end of site. [2015 Site ID: SAC_8-0_L]					

Photo 1 of 1 : SP\_2018\_RD0341\_168\_3\_20180305\_00002.jpg



USACE 2013 Photo #1

LM Start	4.75	Rating **	A/W	Issue No.	42
LM End	4.79	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.086641 °	38.086119 °
				-121.707545 °	-121.707912 °
DWR ID	DWR_RD0341_02_f_2017_42				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:65					
Site Designation:DWR_RD0341_02_s_2012_8					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/8/2017					
Notes: hwy 160 forms levee crown road, erosion has encroached into paved crown, crown 38' wide. This site is currently under contract for repair under FSRP.					

Photo 1 of 3 : SP\_2018\_RD0341\_168\_42\_20180305\_00010.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	4.75	Rating **	A/W	Issue No.	42 (cont)
LM End	4.79	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.086641 °	38.086119 °
				-121.707545 °	-121.707912 °
DWR ID	DWR_RD0341_02_f_2017_42				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:65					
Site Designation:DWR_RD0341_02_s_2012_8					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/8/2017					
Notes: hwy 160 forms levee crown road, erosion has encroached into paved crown, crown 38' wide. This site is currently under contract for repair under FSRP.					

Photo 2 of 3 : SP\_2018\_RD0341\_168\_42\_20180305\_00011.jpg



Photo 3 of 3 : SP\_2018\_RD0341\_168\_42\_20180305\_00012.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	4.76	Rating **	A/W	Issue No.	4
LM End	4.85	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.086603 °	38.085459 °
				-121.707786 °	-121.708607 °
DWR ID	DWR_RD0341_02_s_2016_4				
Comment Code					
Inspector Comment					
2011 - Large slump section. 2012 - Site extended downstream, upgraded to critical, severe windwave. Slope is very steep and may be effecting the highway on top of the levee. 2015: No observed changes. [2015 Site ID: SAC_7-9_L] 11/02/17: This issue changed from U to A/W due to DWR 2017 Levee Eval Storm Site issue with U rating at same location.					

Photo 1 of 1 : SP\_2018\_RD0341\_168\_4\_20180305\_00003.jpg



USACE 2013 Photo #1

LM Start	4.79	Rating **	M	Issue No.	52
LM End	4.79	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.086119 °	38.086119 °
				-121.707912 °	-121.707912 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22186 DS_ID:24123 EP_NO: 4855 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 2-inch steel irrigation pipe through the levee, 3.0 feet below the crown. Valve and pump on landside (LS). Rock revetment placed on waterside (WS) slope. (2-inch pipe authorized under Permit No. 4855, 1965 - A. Cabral) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 948+00] FS Date: 5/6/2009					

Photo 1 of 2 : UCIP\_SP\_2018\_22186\_37787.jpg



View of crossing on waterward side--dense vegetation on slopes.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	4.79	Rating **	M	Issue No.	52 (cont)
LM End	4.79	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.086119°	38.086119°
				-121.707912°	-121.707912°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22186 DS_ID:24123 EP_NO: 4855 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 2-inch steel irrigation pipe through the levee, 3.0 feet below the crown. Valve and pump on landside (LS). Rock revetment placed on waterside (WS) slope. (2-inch pipe authorized under Permit No. 4855, 1965 - A. Cabral) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 948+00] FS Date: 5/6/2009					

Photo 2 of 2 : UCIP\_SP\_2018\_22186\_37786.jpg



View of waterward toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	4.96	Rating **	U	Issue No.	53
LM End	4.96	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.084182 °	38.084182 °
				-121.709650 °	-121.709650 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50009  
DS\_ID:24124  
EP\_NO: 1806  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 7/6/2016 Meet with Joel McElroy, District Representative, at site. Difficult to access pipe from WS due to high traffic on levee crown and large debris scattered on WS toe. According to Joel McElroy, crossing is still present. Unable to access crossing from WS toe. Access should be made via boat. Assume crossing has gotten worse from last site visit. Need to find owner and coordinate with CVFPB to remove pipe. Mr. McElroy mentioned that Caltrans will be working on the Pavement Rehabilitation Project on State Route 160 and this crossing might be addressed by them. Project Manager for Pavement Rehabilitation Project is Kidianga Tshiunza, Caltrans District 3, 530-741-4178. (DWR UCIP - omagana)5/6/2009 Crossing has failed. Large holes present on waterward side. Need to contact owner. Crossing needs to be addressed. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 12-inch steel irrigation pipe sleeved through 14-inch pipe through the levee, 6.8 feet below the crown. Hand primer pump in pump house on landside (LS) slope. Pipe exposed on both slopes (only visible on WS-2009). (14-inch pipe authorized under Permit No. 1806, 1959 - C. E. Upham, Jr.; no permit found authorizing the 12-inch sleeved pipe). [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 5.02). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 940+00].  
FS Date: 7/6/2016

Photo 1 of 2 : UCIP\_SP\_2018\_50009\_37842.jpg



View of crossing on waterward side. Dense vegetation limits inspection of crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	4.96	Rating **	U	Issue No.	53 (cont)	
LM End	4.96	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.084182 °	38.084182 °	
				-121.709650 °	-121.709650 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50009 DS_ID:24124 EP_NO: 1806 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/6/2016 Meet with Joel McElroy, District Representative, at site. Difficult to access pipe from WS due to high traffic on levee crown and large debris scattered on WS toe. According to Joel McElroy, crossing is still present. Unable to access crossing from WS toe. Access should be made via boat. Assume crossing has gotten worse from last site visit. Need to find owner and coordinate with CVFPB to remove pipe. Mr. McElroy mentioned that Caltrans will be working on the Pavement Rehabilitation Project on State Route 160 and this crossing might be addressed by them. Project Manager for Pavement Rehabilitation Project is Kidianga Tshiunza, Caltrans District 3, 530-741-4178. (DWR UCIP - omagana)5/6/2009 Crossing has failed. Large holes present on waterward side. Need to contact owner. Crossing needs to be addressed. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 12-inch steel irrigation pipe sleeved through 14-inch pipe through the levee, 6.8 feet below the crown. Hand primer pump in pump house on landside (LS) slope. Pipe exposed on both slopes (only visible on WS-2009). (14-inch pipe authorized under Permit No. 1806, 1959 - C. E. Upham, Jr.; no permit found authorizing the 12-inch sleeved pipe). [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 5.02). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 940+00]. FS Date: 7/6/2016						

Photo 2 of 2 : UCIP\_SP\_2018\_50009\_37841.jpg



Holes present on waterward side.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	<b>5.02</b>	Rating **	M	Issue No.	<b>54</b>
LM End	<b>5.02</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.083633 °	38.083633 °	
			-121.710532 °	-121.710532 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39868 DS_ID:24125 EP_NO: 2301 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Need to verify status of crossing. Permit authorized 24 inch pipe. Unable to find stand pipe in field. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: *REMOVED* 1 of 3: 20-inch steel irrigation pipe through the levee, 8.1 feet below the crown. Cutoff wall under the waterward slope. Siphon breaker on waterward slope. Gate valves on waterward side of pipe. Standpipe at landward toe. (three 20-inch pipe authorized under Permit No. 2301, 1959 - Reclamation District No. 341 [RD0341]; existing three 20-inch pipes were removed from levee and slopes and ends were sealed off with welded metal plates and three new 24-inch pipes were installed under Permit No. 15175, 1993, - RD0341) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 5.02). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 937+00] FS Date: 5/6/2009					

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	<b>5.02</b>	Rating **	M	Issue No.	<b>55</b>							
LM End	<b>5.02</b>	Issue Type +	En	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP Field Study		38.083633 °	38.083633 °								
			-121.710532 °	-121.710532 °								
DWR ID												
Comment Code												
Inspector Comment												
FS_ID:39866 DS_ID:24235 EP_NO: 2301 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Need to verify status of crossing. Permit authorized 24 inch pipe. Unable to find stand pipe in field. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: *REMOVED* 2 of 3: 20-inch steel irrigation pipe through the levee, 8.1 feet below the crown. Cutoff wall under the waterside (WS) slope. Siphon breaker on WS slope. Gate valves on WS of pipe. Standpipe is located on the landside (LS) toe. (three 20-inch pipe authorized under Permit No. 2301, 1959 - Reclamation District No. 341 [RD0341]; existing three 20-inch pipes were removed from levee and slopes and ends were sealed off with welded metal plates and three new 24-inch pipes were installed under Permit No. 15175, 1993, - RD0341) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 5.02). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 937+00] FS Date: 5/6/2009												

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	<b>5.02</b>	Rating **	M	Issue No.	<b>56</b>
LM End	<b>5.02</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.083633 °	38.083633 °	
			-121.710532 °	-121.710532 °	
DWR ID					
Comment Code					
Inspector Comment					
<p>FS_ID:39867  DS_ID:24236  EP_NO: 2301  Repair Type: Non-Urgent  Crossing Status: Not Found  UCIP Comments: Need to verify status of crossing. Permit authorized 24 inch pipe. Unable to find stand pipe in field. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  FIELD_STRUCT_DESC: *REMOVED* 3 of 3: 20-inch steel irrigation pipe through the levee, 8.1 feet below the crown. Cutoff wall under the waterward slope. Siphon breaker on waterward slope. Gate valves on waterward side of pipe. Standpipe at landward toe. (three 20-inch pipe authorized under Permit No. 2301, 1959 - Reclamation District No. 341 [RD0341]; existing three 20-inch pipes were removed from levee and slopes and ends were sealed off with welded metal plates and three new 24-inch pipes were installed under Permit No. 15175, 1993, - RD0341) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&amp;M Manual Unit No. 101, February 1962, (HLM 5.02). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 937+00]  FS Date: 5/6/2009</p>					

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	<b>5.05</b>	Rating **	M	Issue No.	<b>57</b>
LM End	<b>5.05</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.083143 °	38.083143 °	
			-121.710914 °	-121.710914 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:22253  
DS\_ID:24195  
EP\_NO: 15175  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: [Horseshoe Intake] 1 of 4: 24-inch steel irrigation pipe in 30-inch steel casings through the levee, 6.6 feet below the crown. Annular gap grouted between pipes. Siphon breakers located on the waterside (WS) shoulder, with concrete risers on both ends. Screened inlet manifold (36-inch) with backwash system on pile structure in stream. Surrounded by fence with entry gate. Irrigation pond located on the landside (LS) toe. (three 24-inch pipe authorized under Permit No. 15175, 1993 -Reclamation District 341 [RD0341]; replacement of 210 feet of existing 24-inch pipes, join two pipes at an inlet with a 36-inch screened manifold intake, add bypass valves on both lines, install an access platform, and pressurized backwash system to clean fish screens authorized under Permit No. 16737, 2000 - Department of Water Resources [DWR]) [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 934+00] FS Date: 5/6/2009

LM Start	<b>5.05</b>	Rating **	M	Issue No.	<b>57 (cont)</b>
LM End	<b>5.05</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22253\_37885.jpg



Pipes, walkway, fence, and support piles located on waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_22253\_37882.jpg



View of waterward side - 3-20 inch pipes.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	5.05	Rating **	M	Issue No.	57 (cont)
LM End	5.05	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.083143 °	38.083143 °
				-121.710914 °	-121.710914 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22253 DS_ID:24195 EP_NO: 15175 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: [Horseshoe Intake] 1 of 4: 24-inch steel irrigation pipe in 30-inch steel casings through the levee, 6.6 feet below the crown. Annular gap grouted between pipes. Siphon breakers located on the waterside (WS) shoulder, with concrete risers on both ends. Screened inlet manifold (36-inch) with backwash system on pile structure in stream. Surrounded by fence with entry gate. Irrigation pond located on the landside (LS) toe. (three 24-inch pipe authorized under Permit No. 15175, 1993 -Reclamation District 341 [RD0341]; replacement of 210 feet of existing 24-inch pipes, join two pipes at an inlet with a 36-inch screened manifold intake, add bypass valves on both lines, install an access platform, and pressurized backwash system to clean fish screens authorized under Permit No. 16737, 2000 - Department of Water Resources [DWR]) [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 934+00] FS Date: 5/6/2009					

Photo 3 of 3 : UCIP\_SP\_2018\_22253\_37881.jpg



Gates located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	<b>5.05</b>	Rating **	M	Issue No.	<b>58</b>
LM End	<b>5.05</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.083137 °	38.083137 °	
			-121.710916 °	-121.710916 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:22254  
DS\_ID:24239  
EP\_NO: 15175  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: [Horseshoe Intake] 2 of 4: 24-inch steel irrigation pipe in 30-inch steel casings through the levee, 6.6 feet below the crown. Annular gap grouted between pipes. Siphon breakers located on the waterside (WS) shoulder, with concrete risers on both ends. Screened inlet manifold (36-inch) with backwash system on pile structure in stream. Surrounded by fence with entry gate. Irrigation pond is located on the landside (LS) toe. (three 24-inch pipe authorized under Permit No. 15175, 1993 -Reclamation District 341 [RD0341]; replacement of 210 feet of existing 24-inch pipes, join two pipes at an inlet with a 36-inch screened manifold intake, add bypass valves on both lines, install an access platform, and pressurized backwash system to clean fish screens authorized under Permit No. 16737, 2000 - Department of Water Resources [DWR]) [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 934+00] FS Date: 5/6/2009

LM Start	<b>5.05</b>	Rating **	M	Issue No.	<b>58 (cont)</b>
LM End	<b>5.05</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22254\_37896.jpg



Pipes, walkway, fence, and support piles located on waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_22254\_37898.jpg



View of waterward side - 3-20 inch pipes.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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## Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

Photo 3 of 3 : UCIP\_SP\_2018\_22254\_37897.jpg



Gates located on waterward side.

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	5.06	Rating **	M	Issue No.	59
LM End	5.06	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.083133 °	38.083133 °
				-121.710922 °	-121.710922 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:22255  
DS\_ID:24240  
EP\_NO: 15175  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: [Horseshoe Intake] 3 of 4: 24-inch steel irrigation pipe in 30-inch steel casings through the levee, 6.6 feet below the crown. Annular gap grouted. Siphon breakers at waterward shoulder, with concrete risers on both ends. Screened inlet manifold (36-inch) with backwash system on pile structure in stream. Surrounded by fence with entry gate. Irrigation pond at landward toe. (three 24-inch pipe authorized under Permit No. 15175, 1993 -Reclamation District 341 [RD0341]; replacement of 210 feet of existing 24-inch pipes, join two pipes at an inlet with a 36-inch screened manifold intake, add bypass valves on both lines, install an access platform, and pressurized backwash system to clean fish screens authorized under Permit No. 16737, 2000 - Department of Water Resources [DWR]) [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 934+00]  
FS Date: 5/6/2009

LM Start	<b>5.06</b>	Rating **	M	Issue No.	<b>59 (cont)</b>
LM End	<b>5.06</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22255\_37911.jpg



Pipes, walkway, fence, and support piles located on waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_22255\_37909.jpg



View of waterward side - 3-20 inch pipes.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	5.06	Rating **	M	Issue No.	59 (cont)	
LM End	5.06	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.083133 °		38.083133 °
				-121.710922 °		-121.710922 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22255 DS_ID:24240 EP_NO: 15175 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: [Horseshoe Intake] 3 of 4: 24-inch steel irrigation pipe in 30-inch steel casings through the levee, 6.6 feet below the crown. Annular gap grouted. Siphon breakers at waterward shoulder, with concrete risers on both ends. Screened inlet manifold (36-inch) with backwash system on pile structure in stream. Surrounded by fence with entry gate. Irrigation pond at landward toe. (three 24-inch pipe authorized under Permit No. 15175, 1993 -Reclamation District 341 [RD0341]; replacement of 210 feet of existing 24-inch pipes, join two pipes at an inlet with a 36-inch screened manifold intake, add bypass valves on both lines, install an access platform, and pressurized backwash system to clean fish screens authorized under Permit No. 16737, 2000 - Department of Water Resources [DWR]) [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 934+00] FS Date: 5/6/2009						

Photo 3 of 3 : UCIP\_SP\_2018\_22255\_37908.jpg



Gates located on waterward side.

\* Location  
 LS : Land Side N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

\*\* Rating  
 A : Acceptable N : Not Inspected/Rated  
 M : Minimally Acceptable C : Corrected  
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	<b>5.06</b>	Rating **	M	Issue No.	<b>60</b>
LM End	<b>5.06</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.083177 °	38.083177 °	
			-121.711001 °	-121.711001 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41538 DS_ID:24241 EP_NO: 15175 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Unable to find electrical conduit however, the pump structure is present. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 4 of 4: 4-inch electric conduit through the levee, 2.0 feet below the crown. Screened inlet manifold (36-inch) with backwash system on pile structure in stream. Surrounded by fence with entry gate. Irrigation pond at landward toe. (4-inch conduit authorized under Permit No. 16737, 2000 - Department of Water Resources [DWR]; related Permit No. 15175, 1993 -Reclamation District 341 [RD0341]) [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 934+00] FS Date: 5/6/2009					

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	5.39	Rating **	M	Issue No.	61
LM End	5.39	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.081790 °	38.081790 °
				-121.716868 °	-121.716868 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:22256  
DS\_ID:24127  
EP\_NO: 11116  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: 16-inch steel irrigation pipe sleeved through 18-inch pipe through the levee, 2.5 feet below the crown. Annular gap grouted. Air vent on waterside (WS). (16-inch sleeved through 18-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11116, 1975 - C. E. & J. E. Upham; widen and realign State HWY 160 and extend three irrigation pipes authorized under Permit No. 15372, 1993 - Department of Transportation [Caltrans]) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 5.40). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 917+00]  
FS Date: 5/6/2009

LM Start	<b>5.39</b>	Rating **	M	Issue No.	<b>61 (cont)</b>
LM End	<b>5.39</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22256\_37915.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2018\_22256\_37914.jpg



View of pipe through brush on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	5.39	Rating **	M	Issue No.	61 (cont)	
LM End	5.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.081790 °	38.081790 °	
				-121.716868 °	-121.716868 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22256 DS_ID:24127 EP_NO: 11116 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe sleeved through 18-inch pipe through the levee, 2.5 feet below the crown. Annular gap grouted. Air vent on waterside (WS). (16-inch sleeved through 18-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11116, 1975 - C. E. & J. E. Upham; widen and realign State HWY 160 and extend three irrigation pipes authorized under Permit No. 15372, 1993 - Department of Transportation [Caltrans]) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 5.40). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 917+00] FS Date: 5/6/2009						

Photo 3 of 3 : UCIP\_SP\_2018\_22256\_37917.jpg



Pipe on waterward side at daylight.

LM Start	5.55	Rating **	M	Issue No.	11
LM End	5.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.081270 °	38.080807 °
				-121.719702 °	-121.723488 °
DWR ID	DWR_RD0341_02_f_2014_11				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim up the trees on the waterside slope so the ground can be seen.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	5.87	Rating **	M	Issue No.	62
LM End	5.87	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.080381 °	38.080381 °
				-121.725534 °	-121.725534 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:22258  
DS\_ID:24074  
EP\_NO: 11116  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: 1 of 2: 8-inch steel irrigation pipe sleeved through 10-inch pipe through levee, 2.5 feet below the crown. Annular gap grouted. Concrete distribution box with slide gate located on the landside (LS) toe. Air vent located on the waterside (WS). (8-inch sleeved through 10-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11116, 1975 - C. E. & J. E. Upham; distribution box installed and pipe along LS slope removed and replaced with longer 10-inch steel pipe authorized under Permit No. 15372, 1993 - Department of Transportation [Caltrans]) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 5.81). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 891+00]  
FS Date: 5/6/2009

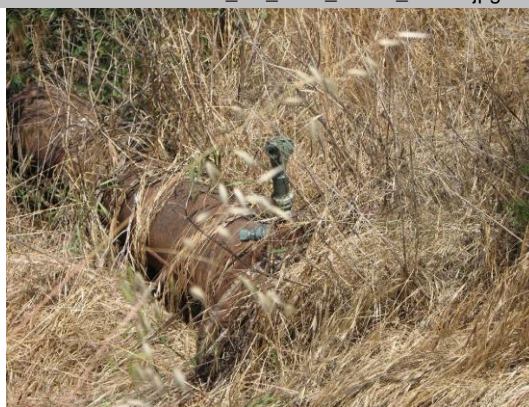
LM Start	<b>5.87</b>	Rating **	M	Issue No.	<b>62 (cont)</b>
LM End	<b>5.87</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22258\_37932.jpg



8-inch pipe and 14-inch pipe on waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_22258\_37930.jpg



Air vent located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	5.87	Rating **	M	Issue No.	62 (cont)	
LM End	5.87	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.080381 °	38.080381 °	
				-121.725534 °	-121.725534 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22258 DS_ID:24074 EP_NO: 11116 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 1 of 2: 8-inch steel irrigation pipe sleeved through 10-inch pipe through levee, 2.5 feet below the crown. Annular gap grouted. Concrete distribution box with slide gate located on the landside (LS) toe. Air vent located on the waterside (WS). (8-inch sleeved through 10-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11116, 1975 - C. E. & J. E. Upham; distribution box installed and pipe along LS slope removed and replaced with longer 10-inch steel pipe authorized under Permit No. 15372, 1993 - Department of Transportation [Caltrans]) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 5.81). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 891+00] FS Date: 5/6/2009						

Photo 3 of 3 : UCIP\_SP\_2018\_22258\_37931.jpg



View of landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	5.87	Rating **	M	Issue No.	63	
LM End	5.87	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.080381 °		38.080381 °
				-121.725534 °		-121.725534 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22259 DS_ID:24075 EP_NO: 1806 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 2 of 2: 14-inch steel irrigation pipe through the levee, 3 feet below the crown. Concrete distribution box with gate valve located on the landside (LS) toe. Air vent located on the waterside (WS). (14-inch pipe authorized under Permit No. 1806, 1959 - C. E. Upham, Jr.; distribution box installed and pipe along LS slope removed and replaced with longer 16-inch steel pipe authorized under Permit No. 15372, 1993 - Department of Transportation [Caltrans]) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 5.81). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 891+00] FS Date: 5/6/2009						

LM Start	<b>5.87</b>	Rating **	M	Issue No.	<b>63 (cont)</b>
LM End	<b>5.87</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22259\_37935.jpg



View of pipes on waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_22259\_37936.jpg



Air vent located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	5.87	Rating **	M	Issue No.	63 (cont)	
LM End	5.87	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.080381 °	38.080381 °	
				-121.725534 °	-121.725534 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22259 DS_ID:24075 EP_NO: 1806 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 2 of 2: 14-inch steel irrigation pipe through the levee, 3 feet below the crown. Concrete distribution box with gate valve located on the landside (LS) toe. Air vent located on the waterside (WS). (14-inch pipe authorized under Permit No. 1806, 1959 - C. E. Upham, Jr.; distribution box installed and pipe along LS slope removed and replaced with longer 16-inch steel pipe authorized under Permit No. 15372, 1993 - Department of Transportation [Caltrans]) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 5.81). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 891+00] FS Date: 5/6/2009						

Photo 3 of 3 : UCIP\_SP\_2018\_22259\_37934.jpg



Gate located at the toe of the levee on landward side.

LM Start	6.03	Rating **	U	Issue No.	49
LM End	6.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.080143 °	38.080125 °
				-121.728332 °	-121.729662 °
DWR ID	DWR_RD0341_02_f_2016_49				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the bamboo from the landside levee slope.					

Photo 1 of 1 : SP\_2018\_RD0341\_168\_49\_20180305\_00015.jpg



RD 341 Landside slope from levee mile 6.03-6.10 tall unwanted growth of Arundo present on the levee section.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	6.03	Rating **	U	Issue No.	1
LM End	6.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.080370 °	38.080526 °
				-121.728341 °	-121.730483 °
DWR ID	DWR_RD0341_02_s_2016_1				
Comment Code					
Inspector Comment					
2011 - Large slump at downstream end. Gully formed from surface runoff from the road. Shallow slumping throughout site. 2012 - The gully at upstream end has increased in size and site continues to worsen. 2015: No observed changes. [2015 Site ID: SAC_7-3_L]					

Photo 1 of 1 : SP\_2018\_RD0341\_168\_1\_20180305\_00001.jpg



USACE 2013 Photo #1

LM Start	6.20	Rating **	M	Issue No.	64	
LM End	6.20	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.080591 °	38.080591 °	
				-121.731249 °	-121.731249 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39861 DS_ID:24076 EP_NO: 11116 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. If crossing is no longer used will need to meet Title 23 requirements. Hole present in pipe section. Debris on waterward side--10-inch pipe section abandoned on slope. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe sleeved through 14-inch pipe through levee, 4.0 feet below crown. Annular gap grouted. Slide gate in distribution box on landside (LS). (12-inch sleeved though 14-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11116, 1975 - C. E. & J. E. Upham; widen and realign State HWY 160 and extend three irrigation pipes authorized under Permit No. 15372, 1993 - Department of Transportation [Caltrans]) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 6.12). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 874+00] FS Date: 5/6/2009						

Photo 1 of 3 : UCIP\_SP\_2018\_39861\_71853.jpg



View of structure located on waterward side.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	6.20	Rating **	M	Issue No.	64 (cont)	
LM End	6.20	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.080591 °	38.080591 °	
				-121.731249 °	-121.731249 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39861 DS_ID:24076 EP_NO: 11116 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. If crossing is no longer used will need to meet Title 23 requirements. Hole present in pipe section. Debris on waterward side--10-inch pipe section abandoned on slope. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe sleeved through 14-inch pipe through levee, 4.0 feet below crown. Annular gap grouted. Slide gate in distribution box on landside (LS). (12-inch sleeved though 14-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11116, 1975 - C. E. & J. E. Upham; widen and realign State HWY 160 and extend three irrigation pipes authorized under Permit No. 15372, 1993 - Department of Transportation [Caltrans]) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 6.12). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 874+00] FS Date: 5/6/2009						

LM Start	<b>6.20</b>	Rating **	M	Issue No.	<b>64 (cont)</b>
LM End	<b>6.20</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39861\_71852.jpg



Marker visible on waterward side associated with crossing.

Photo 3 of 3 : UCIP\_SP\_2018\_39861\_71851.jpg



Pipe section visible on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

Photo 1 of 1 : SP\_2018\_RD0341\_168\_47\_20180305\_00014.jpg



RD 341 landside levee slope mile 6.29-6.32.

Photo 1 of 3 : UCIP\_SP\_2018\_22261\_37949.jpg



Side view of pipe on waterward side.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	<b>6.53</b>	Rating **	M	Issue No.	<b>65 (cont)</b>
LM End	<b>6.53</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.082718 °	38.082718 °	
			-121.736635 °	-121.736635 °	

DWR ID	
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**Comment Code**

**Inspector Comment**

FS\_ID:22261  
DS\_ID:24078  
EP\_NO: 11116  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: 12-inch steel pipe of unknown purpose through the levee, 2 feet below the crown. Siphon breaker on landside (LS) slope. Rock revetment on waterside (WS) slope. (12-inch authorized under Automatic Board Order (ABO) issued as Permit No. 11116, 1975 - C. E. & J. E. Upham) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 6.30). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 857+00]  
FS Date: 5/6/2009

LM Start	<b>6.53</b>	Rating **	M	Issue No.	<b>65 (cont)</b>
LM End	<b>6.53</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_22261\_37947.jpg



View of pipe and rip rap on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_22261\_37948.jpg



View of crossing on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	6.63	Rating **	M	Issue No.	66	
LM End	6.63	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.083549 °	38.083549 °	
				-121.738161 °	-121.738161 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22262 DS_ID:24079 EP_NO: 11107 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status of crossing. If crossing is no longer in used owner will need to comply with Title 23. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 4-inch steel pipe type unknown through the levee, 4 feet below the crown. (4-inch pipe authorized under Permit No. 11107, 1975 - G. Celli) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 851+00] FS Date: 5/6/2009						

Photo 1 of 2 : UCIP\_SP\_2018\_22262\_37953.jpg



View of landward side no evidence of crossing.

LM Start	<b>6.63</b>	Rating **	M	Issue No.	<b>66 (cont)</b>
LM End	<b>6.63</b>	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP\_SP\_2018\_22262\_37952.jpg



View of waterward side air vent pipe could be associated with crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	7.11	Rating **	M	Issue No.	67
LM End	7.11	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.080277 °	38.080277 °
				-121.745407 °	-121.745407 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22263 DS_ID:24081 EP_NO: 892 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition. FIELD_STRUCT_DESC: 1 of 2: 12.75-inch steel gas line through the levee, 2.0 feet below the crown. Concrete cutoff wall around pipes at center of levee. Location marker on waterside (WS) slope. Concrete control box and valve pit on landside (LS) slope. Utility marker contact information includes Contact prior to Excavation call 1-800-227-2600 or Emergency Contact 1-800-811-4111. (12.75-inch gas line authorized under Permit No. 892, 1942 - Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 826+00] FS Date: 5/6/2009					

LM Start	7.11	Rating **	M	Issue No.	67 (cont)
LM End	7.11	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22263\_37962.jpg



View of landward side. Concrete box and markers indicating gas pipeline. Additional marker located at levee toe.

Photo 2 of 3 : UCIP\_SP\_2018\_22263\_37961.jpg



Unable to confirm number of pipes.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	7.11	Rating **	M	Issue No.	68
LM End	7.11	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.080277 °	38.080277 °
				-121.745407 °	-121.745407 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22264 DS_ID:24234 EP_NO: 892 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition. FIELD_STRUCT_DESC: 2 of 2: 12.75-inch steel gas line through the levee, 2.0 feet below the crown. Concrete cutoff wall around pipes at center of levee. Location marker on waterside (WS) slope. Concrete control box and valve pit on landside (LS) slope. Utility marker contact information includes Contact prior to Excavation call 1-800-227-2600 or Emergency Contact 1-800-811-4111. (12.75-inch gas line authorized under Permit No. 892, 1942 - Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 826+00] FS Date: 5/6/2009					

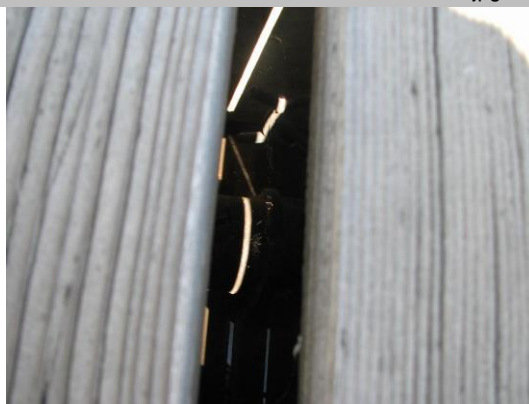
LM Start	7.11	Rating **	M	Issue No.	68 (cont)
LM End	7.11	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22264\_37965.jpg



Concrete box and marker located on near landward shoulder. Additional marker located at the levee toe.

Photo 2 of 3 : UCIP\_SP\_2018\_22264\_37964.jpg



Unable to confirm the number of pipe through section of levee.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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## Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	7.11	Rating **	M	Issue No.	68 (cont)	
LM End	7.11	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.080277 °	38.080277 °	
				-121.745407 °	-121.745407 °	
DWR ID						
Comment Code						
Inspector Comment						
<p>FS_ID:22264  DS_ID:24234  EP_NO: 892  Repair Type: Non-Urgent  Crossing Status: Found  UCIP Comments: Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition.  FIELD_STRUCT_DESC: 2 of 2: 12.75-inch steel gas line through the levee, 2.0 feet below the crown. Concrete cutoff wall around pipes at center of levee. Location marker on waterside (WS) slope. Concrete control box and valve pit on landside (LS) slope. Utility marker contact information includes Contact prior to Excavation call 1-800-227-2600 or Emergency Contact 1-800-811-4111. (12.75-inch gas line authorized under Permit No. 892, 1942 - Pacific Gas and Electric Company [PG&amp;E]) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, a Corporation dated July 2012, STA 826+00]  FS Date: 5/6/2009</p>						

A yellow ruler with a red label and black markings, lying on a green lawn. The ruler is positioned diagonally across the frame. The red label features the text "02-222" in large black digits, with "02" on the left and "222" on the right. Below this, there is smaller text that is partially obscured but appears to include "02-222" and "02-222". The ruler has black markings along its length, indicating measurements. The background is a green lawn with some dry grass and a small white object visible in the upper right.

Damaged marker located on waterward side.



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	7.11	Rating **	M	Issue No.	69
LM End	7.11	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.080277 °	38.080277 °	
			-121.745407 °	-121.745407 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:22267  
DS\_ID:24193  
EP\_NO: 15777  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition. Multiple crossings in general area need to clarify which pipes are in this levee section.  
FIELD\_STRUCT\_DESC: 42-inch steel natural gas line through the levee, bored 30-feet below the channel and both levees. Utility marker contact information includes Contact prior to Excavation call 1-800-227-2600 or Emergency Contact 1-800-811-4111. (42-inch line authorized under authorized Permit No. 15777, 1993 - PGT - PG&E Pipeline Expansion Project) [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 826+00]  
FS Date: 5/6/2009

LM Start	7.11	Rating **	M	Issue No.	69 (cont)
LM End	7.11	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_22267\_37978.jpg



Marker located on landward side.

Photo 2 of 2 : UCIP\_SP\_2018\_22267\_37977.jpg



Marker located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	7.17	Rating **	M	Issue No.	70
LM End	7.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.079803 °	38.079803 °
				-121.746345 °	-121.746345 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:22268  
DS\_ID:24218  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition. Multiple crossings in general area need to clarify which pipes are in this levee section.  
FIELD\_STRUCT\_DESC: Gas line crossing through the levee. Utility marker contact information includes Contact prior to Excavation call 1-800-227-2600 or Emergency Contact 1-800-743-5000. [Additional Reference(s): USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 7.08). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 823+00]  
FS Date: 5/6/2009

LM Start	<b>7.17</b>	Rating **	M	Issue No.	<b>70 (cont)</b>
LM End	<b>7.17</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_22268\_37980.jpg



Utility marker located on landward side.

Photo 2 of 2 : UCIP\_SP\_2018\_22268\_37979.jpg



Utility marker located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	7.62	Rating **	M	Issue No.	71
LM End	7.62	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.076229 °	38.076229 °
				-121.753363 °	-121.753363 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22293 DS_ID:24128 EP_NO: 1915 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Will need to contact owner. Need to obtain maintenance records and clarify modifications made at to crossing (size). Also important to note that DWR DOE was out in the field during our pipe inspection they were conducting pipe evaluation for pipe replacement. Need to contact DWR DOE to determine location of pipe replacement. FIELD_STRUCT_DESC: 18-inch (not 12-inch as noted in historical records) steel irrigation pipe through the levee, 3.0 feet below the crown. 30-inch concrete standpipe riser on landside (LS). (Permit No. 1352-1948) Siphon breaker on landward side installed under Permit No. 1915 (1954). Pipe removed and replaced by 12-inch steel pipe under Permit No. 10799 (1977). (12-inch siphon pipe authorized under Permit No. 1352, 1948 - Celli Brothers; 12-inch pipe and 20-inch pipe approximately 4,900 feet and 9,400 feet downstream (D/S), respectively, from Emmaton authorized under Permit No. 1915, 1954 - Celli Brothers; 12-inch pipe authorized to replace existing 12-inch pipe under Permit No. 10799, 1977 - Gene Celli) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 799+00] FS Date: 5/6/2009					

LM Start	<b>7.62</b>	Rating **	M	Issue No.	<b>71 (cont)</b>
LM End	<b>7.62</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22293\_38041.jpg



Overview of waterward side-18-inch pipe located on right side and 12-inch pipe located on left side.

Photo 2 of 3 : UCIP\_SP\_2018\_22293\_38040.jpg




View of crossing located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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## Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

Photo 3 of 3 : UCIP\_SP\_2018\_22293\_38044.jpg



Concrete headwall found on waterward side.



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	7.62	Rating **	M	Issue No.	72
LM End	7.62	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.076229 °	38.076229 °
				-121.753363 °	-121.753363 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22294 DS_ID:24243 EP_NO: 10799 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Will need to contact owner. Need to obtain maintenance records and clarify modifications made at to crossing (size). Also important to note that DWR DOE was out in the field during our pipe inspection they were conducting pipe evaluation for pipe replacement. Need to contact DWR DOE to determine location of pipe replacement. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 5.3 feet below the crown. Steel cutoff wall around pipe at center of levee. Siphon breaker on landside (LS) shoulder. Steel (not concrete as mentioned in historical records) pipe riser on the LS. 2-inch pipe sleeve around pipe at waterside (WS) shoulder. Rock revetment on WS slope. Pipe exposed along WS slope. (12-inch pipe authorized under Permit No. 10799, 1977 - G. Celli) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 799+00] FS Date: 5/6/2009					

LM Start	<b>7.62</b>	Rating **	M	Issue No.	<b>72 (cont)</b>
LM End	<b>7.62</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22294\_38046.jpg



Overview of waterward side- 12-inch pipe located on left side and 18-inch pipe located on right side.

Photo 2 of 3 : UCIP\_SP\_2018\_22294\_38050.jpg



Concrete headwall located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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# Reclamation District No. 0341 Sherman Island

Photo 3 of 3 : UCIP\_SP\_2018\_22294\_38047.jpg

Steel stand pipe located on landward side near levee toe.

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	8.01	Rating **	M	Issue No.	73
LM End	8.01	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.073340 °	38.073340 °
				-121.759340 °	-121.759340 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22303 DS_ID:24246 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to determine the status of conduit--has construction been completed? FIELD_STRUCT_DESC: Four 2.5-inch conduits sleeved through 12-inch steel pipe through the levee at an unknown depth below the levee crown. Boat launching dock and ramp are located on the waterside (WS). [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 778+00] FS Date: 5/6/2009					

LM Start	<b>8.01</b>	Rating **	M	Issue No.	<b>73 (cont)</b>
LM End	<b>8.01</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22303\_38062.jpg



View of waterward side. Conduit goes through concrete structure connecting walkway.

Photo 2 of 3 : UCIP\_SP\_2018\_22303\_38061.jpg



Conduits exposed on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	8.01	Rating **	M	Issue No.	73 (cont)	
LM End	8.01	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.073340 °		38.073340 °
				-121.759340 °		-121.759340 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22303 DS_ID:24246 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to determine the status of conduit--has construction been completed? FIELD_STRUCT_DESC: Four 2.5-inch conduits sleeved through 12-inch steel pipe through the levee at an unknown depth below the levee crown. Boat launching dock and ramp are located on the waterside (WS). [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 778+00] FS Date: 5/6/2009						

Photo 3 of 3 : UCIP\_SP\_2018\_22303\_38060.jpg



View of conduit on landward side. Four 2.5-inch conduits through levee not in use yet.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	8.29	Rating **	M	Issue No.	74
LM End	8.29	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.072083 °	38.072083 °
				-121.764216 °	-121.764216 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22305 DS_ID:24221 EP_NO: 17728 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Need to clarify if three 2-inch steel conduits were installed. This permit appears to be associated with the dock installed at levee mile 7.91. See inspection sheet for LM 7.91. FIELD_STRUCT_DESC: Three 2-inch steel electric conduits encased in a single 6-inch steel conduit through the levee, 2.0 feet below the levee crown. Gaps filled with grout. Boat dock (60-foot by 8-foot) and landing on steel pilings in the channel. Metal bridge, concrete landing on pilings and foot paths on the waterside (WS) slope. Rock revetment on WS slope. (6-inch conduit authorized under Permit No. 17728, 2004 - T. Demattei) [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 764+00] FS Date: 5/6/2009					

Photo 1 of 1 : UCIP\_SP\_2018\_22305\_38064.jpg



Dock installed at levee mile 7.91.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	8.43	Rating **	M	Issue No.	75
LM End	8.43	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.070678 °	38.070678 °
				-121.766206 °	-121.766206 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:22306  
 DS\_ID:24130  
 EP\_NO: 3494  
 Repair Type: Non-Urgent  
 Crossing Status: Indicator Found  
 UCIP Comments: Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition.  
 FIELD\_STRUCT\_DESC: 1 of 2: 26-inch concrete encased steel gas line through the levee, 5.1 feet below the crown. Concrete cutoff wall around pipe at center of levee. Location sign on waterward shoulder. Rock revetment on waterward slope. Contact number listed on marker out in the field 1-800-811-4111. (two 26-inch lines authorized under Permit No. 3494, 1961 - Pacific Gas and Electric Company [PG&E])  
 [Additional Reference(s): DWR Levee Log, 1992. [LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 756+00]  
 FS Date: 5/6/2009

LM Start	<b>8.43</b>	Rating **	M	Issue No.	<b>75 (cont)</b>
LM End	<b>8.43</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22306\_38067.jpg



Survey marker found at this location.

Photo 2 of 3 : UCIP\_SP\_2018\_22306\_38066.jpg



Gas line markers visible on landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	8.43	Rating **	M	Issue No.	75 (cont)	
LM End	8.43	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.070678 °	38.070678 °	
				-121.766206 °	-121.766206 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22306 DS_ID:24130 EP_NO: 3494 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition. FIELD_STRUCT_DESC: 1 of 2: 26-inch concrete encased steel gas line through the levee, 5.1 feet below the crown. Concrete cutoff wall around pipe at center of levee. Location sign on waterward shoulder. Rock revetment on waterward slope. Contact number listed on marker out in the field 1-800-811-4111. (two 26-inch lines authorized under Permit No. 3494, 1961 - Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1992. [LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 756+00] FS Date: 5/6/2009						

Photo 3 of 3 : UCIP\_SP\_2018\_22306\_38065.jpg



Gas line crossing sign located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	<b>8.43</b>	Rating **	M	Issue No.	<b>76 (cont)</b>
LM End	<b>8.43</b>	Issue Type +	En	Location *	

A circular metal manhole cover with embossed text. The outer ring reads "SUNBELT MARK" at the bottom and "SUNBELT" at the top. The inner circle reads "SUNBELT MONUMENT" at the bottom and "DO NOT COVER" at the top. A small hole is visible on the left side.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	8.43	Rating **	M	Issue No.	76 (cont)	
LM End	8.43	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.070678 °	38.070678 °	
				-121.766206 °	-121.766206 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22307 DS_ID:24233 EP_NO: 3494 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition. FIELD_STRUCT_DESC: 2 of 2: 26-inch concrete encased steel gas line through the levee, 5.1 feet below the crown. Concrete cutoff wall around pipe at center of levee. Location sign on waterward shoulder. Rock revetment on waterward slope. Contact number provided on marker out in the field 1-800-811-4111. (two 26-inch lines authorized under Permit No. 3494, 1961 - Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 756+00] FS Date: 5/6/2009						

Photo 3 of 3 : UCIP\_SP\_2018\_22307\_38068.jpg



Gas line crossing sign located on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	8.52	Rating **	M	Issue No.	77
LM End	8.52	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.069690 °	38.069690 °
				-121.767313 °	-121.767313 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22309 DS_ID:24247 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/6/2016 Meet with Joel McElroy, District Representative, at site. DWR Bay Delta Division owns pipe. Pipe is active. Need to contact owner to determine permit authorizing pipe crossing. (DWR UCIP - O. Magana) 05/06/2009 New record found in the field. Unable to find any information for crossing during DWR desk study. Will need to find the owner and obtain records for crossing. Need to coordinate with CVFPB. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, at a shallow depth below the crown. Air vent on the waterside (WS). Distribution box with slide gate and observation well on the landside (LS). Pumping station on the LS. Rip rap located on WS. [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 751+00] FS Date: 5/6/2009					

Photo 1 of 3 : UCIP\_SP\_2018\_22309\_38075.jpg



Concrete stand pipe and gate valve located on landward side.

LM Start	<b>8.52</b>	Rating **	M	Issue No.	<b>77 (cont)</b>
LM End	<b>8.52</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_22309\_38076.jpg



Overview of crossing on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

Photo 3 of 3 : UCIP\_SP\_2018\_22309\_38077.jpg

Siphon breaker visible on waterward side. Levee toe is armored with rock slope protection.





**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	8.68	Rating **	M	Issue No.	78 (cont)
LM End	8.68	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.068000 °	38.068000 °
				-121.769000 °	-121.769000 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50082 DS_ID:25470 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/6/2016 Pipe found in 2009 has been removed and new pipe installed. Unable to determine permit authorizing work. Need to coordinate with owner to obtain details regarding permit and pipe install. (DWR UCIP - omagana) FIELD_STRUCT_DESC: UNK size pipe through the levee. (unknown permit authorizing work; previous 10-inch pipe removed between 2009-2016, 10-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11108, 1975 - D. Faria) [Additional Reference(s): LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 743+00] FS Date: 7/6/2016					

Photo 3 of 3 : UCIP\_SP\_2018\_50082\_75943.jpg



View of levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	9.12	Rating **	M	Issue No.	79
LM End	9.12	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.064563 °	38.064563 °
				-121.776153 °	-121.776153 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22324 DS_ID:24133 EP_NO: 11114 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/6/2016 Meet with Joel McElroy, District Representative, at site. DWR Bay Delta Division owns pipe. Need to contact owner to determine status of pipe crossing. (DWR UCIP - O. Magana) 05/06/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 14-inch steel pipe of unknown purpose through the levee, 4.0 feet below the levee crown. Concrete standpipe with slide gate located on the landside (LS). Rock revetment on the waterside (WS) slope. (14-inch pipe retained under Automatic Board Order (ABO) issued as Permit No. 11114, 1975 - E. J. Trigueiro) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 720+00] FS Date: 5/6/2009					

LM Start	<b>9.12</b>	Rating **	M	Issue No.	<b>79 (cont)</b>
LM End	<b>9.12</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22324\_38096.jpg



Overview of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_22324\_38095.jpg



Potential subsidence in slope however difficult to determine due to dense vegetation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 0341 Sherman Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	9.12	Rating **	M	Issue No.	79 (cont)	
LM End	9.12	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.064563 °	38.064563 °	
				-121.776153 °	-121.776153 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22324 DS_ID:24133 EP_NO: 11114 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/6/2016 Meet with Joel McElroy, District Representative, at site. DWR Bay Delta Division owns pipe. Need to contact owner to determine status of pipe crossing. (DWR UCIP - O. Magana) 05/06/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 14-inch steel pipe of unknown purpose through the levee, 4.0 feet below the levee crown. Concrete standpipe with slide gate located on the landside (LS). Rock revetment on the waterside (WS) slope. (14-inch pipe retained under Automatic Board Order (ABO) issued as Permit No. 11114, 1975 - E. J. Trigueiro) [Additional Reference(s): DWR Levee Log, 1992. LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 720+00] FS Date: 5/6/2009						

Photo 3 of 3 : UCIP\_SP\_2018\_22324\_38094.jpg



Overview of landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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